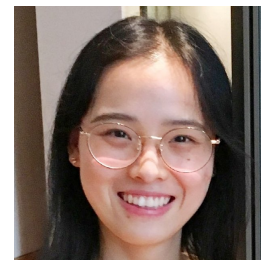


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## Kort præsentation

I am passionate about using deep learning to decode earth observations (e.g., satellite images) and to understand terrestrial ecosystems in a changing climate. Application-wise, I am interested in physical climate risk assessment and nature-based solutions to climate change.

## Kvalifikationer

Natural Resources Management, MSc, University of Twente  
1 sep. 2017 → 22 mar. 2019  
Dimissionsdato: 22 mar. 2019  
Geographical Information Science, BSc, Wuhan University  
1 sep. 2013 → 30 jun. 2017  
Dimissionsdato: 30 jun. 2017

## Publikationer

### **Delineating Standing Deadwood in High-Resolution RGB Drone Imagery**

Möhring, J., Mosig, C., Cheng, Y., Mahecha, M., Priego, O. P., Beloiu, M., Volpi, M., Horion, S., Latifi, H., Shafeian, E., Fassnacht, F., Montero, D., Zielewska-Büttner, K., Laliberté, E., Cloutier, M., Schmehl, M-T., Frick, A., Müller-Landau, H., Cushman, K.C., Hupy, J. & 11 flere, Ma, Q., Su, Y., Khatri-Chhetri, P., Kruse, S., Frey, J., Schiefer, F., Junttila, S., Potts, A., Uhl, A., Rossi, C. & Kattenborn, T., 2024. 1 s.

### **High-resolution mapping of tree mortality in European forests**

Cheng, Yan, Oehmcke, Stefan, Mosig, C., Beloiu, M., Kattenborn, T., Abel, Christin, Gominski, Dimitri Pierre Johannes, Nord-Larsen, Thomas, Fensholt, Rasmus & Horion, Stéphanie, 2024. 1 s.

### **Mapping Tree Mortality at Global Scale Using Sentinel-2**

Mosig, C., Mahecha, M., Montero, D., Cheng, Y., Perez Priego, O., Beloiu, M., Volpi, M., Horion, S., Latifi, H., Shafeian, E., Fassnacht, F., Ganz, S., Zielewska-Büttner, K., Laliberté, E., Cloutier, M., Schmehl, M-T., Frick, A., Müller-Landau, H., Cushman, K.C., Hupy, J. & 11 flere, Ma, Q., Su, Y., Khatri-Chhetri, P., Kruse, S., Frey, J., Schiefer, F., Junttila, S., Potts, A., Uhl, A., Rossi, C. & Kattenborn, T., 2024. 1 s.

### **Scattered tree death contributes to substantial forest loss in California**

Cheng, Yan, Oehmcke, Stefan, Brandt, Martin Stefan, Rosenthal, L., Das, A., Vrieling, A., Saatchi, S., Wagner, F., Mugabowindekwe, Maurice, Verbruggen, Wim, Beier, Claus & Horion, Stéphanie, 2024, I: Nature Communications. 15, 1, s. 1-13 641.

### **deadtrees.earth - an open, dynamic database for accessing, contributing, analyzing, and visualizing remote sensing-based tree mortality data**

Kattenborn, T., Mosig, C., Pratima, K., Frey, J., Perez-Priego, O., Schiefer, F., Cheng, Yan, Potts, A., Jehle, J., Mälicke, M. & Mahecha, M., 2024.

### **A framework to assess multi-hazard physical climate risk for power generation projects from publicly-accessible sources**

Luo, T., Cheng, Yan, Falzon, J., Kölbl, J., Zhou, L., Wu, Y. & Habchi, A., 2023, I: Communications Earth and Environment. 4, 13 s., 117.

### **MAPPING TREE MORTALITY IN CALIFORNIA FROM VERY HIGH RESOLUTION IMAGERY USING DEEP LEARNING**

Cheng, Yan, Oehmcke, Stefan, Brandt, Martin Stefan, Das, A., Rosenthal, L., Saatchi, S., Wagner, F., Vrieling, A., Verbruggen, Wim, Beier, Claus & Horion, Stéphanie, 2023.

### **Mapping and characterising tree mortality in California at individual tree level using deep learning**

Cheng, Yan, Oehmcke, Stefan, Brandt, Martin Stefan, Das, A., Rosenthal, L., Saatchi, S., Wagner, F., Verbruggen, Wim, Vrieling, A., Beier, Claus & Horion, Stéphanie, 2023. 1 s.

### **Quantifying Tree Mortality Drivers - a Case Study in a Boreal Forest**

Jääskeläinen, J., Junttila, S., O'Sullivan, H., Cheng, Yan, Horion, Stéphanie & Vastaranta, M., 2023, SSRN: Social Science Research Network, 50 s.

### **Seasonal-Trend Time Series Decomposition on Graphics Processing Units**

Serykh, Dmitry, Oehmcke, Stefan, Oancea, Cosmin Eugen, Masiliunas, D., Verbesselt, J., Cheng, Yan, Horion, Stéphanie, Gieseke, F. & Hinnerskov, Nikolaj Hey, 2023, *Proceedings - 2023 IEEE International Conference on Big Data, BigData 2023*. He, J., Palpanas, T., Hu, X., Cuzzocrea, A., Dou, D., Slezak, D., Wang, W., Gruca, A., Lin, J. C-W. & Agrawal, R. (red.). IEEE, s. 5914-5923 10 s.

### **Identification of temporary livestock enclosures in Kenya from multi-temporal PlanetScope imagery**

Vrieling, A., Fava, F., Leitner, S., Merbold, L., Cheng, Yan, Nakalema, T., Groen, T. & Butterbach-Bahl, K., 2022, *I: Remote Sensing of Environment*. 279, 15 s., 113110.

### **Assessing Physical Climate Risks for the European Bank for Reconstruction and Development's Power Generation Project Investment Portfolio**

Luo, T., Zhou, L., Falzon, J., Cheng, Yan, Christianson, G., Wu, Y. & Habchi, A., 9 dec. 2021, World Resources Institute, 48 s.

### **Phenology of short vegetation cycles in a Kenyan rangeland from PlanetScope and Sentinel-2**

Cheng, Yan, Vrieling, A., Fava, F., Meroni, M., Marshall, M. & Gachoki, S., 2020, *I: Remote Sensing of Environment*. 248, 20 s., 112004.

## **Ansættelse**

### **Ph.d.-stipendiat**

Geografi 2

Københavns Universitet

København K, Danmark

1 sep. 2021 → nu

### **Remote sensing specialist**

DHI

Danmark

18 jul. 2022 → nu

### **Data Analyst**

World Resources Institute

USA

18 jan. 2021 → 25 aug. 2021

### **AiO/Research Assistant**

University of Twente

Holland

2 dec. 2019 → 1 dec. 2020

### **Intern, Esri (Redlands, CA)**

31 maj 2019 → 18 okt. 2019

## **Aktiviteter**

### **ETH Zurich**

Cheng, Yan (Gæsteforsker)  
feb. 2024 → mar. 2024

### **Southern University of Science and Technology**

Cheng, Yan (Gæsteforsker)  
dec. 2023

### **Wuhan University**

Cheng, Yan (Gæsteforsker)  
dec. 2023

### **USGS**

Cheng, Yan (Gæsteforsker)  
jul. 2023

### **Teaching assistant for the MSc course - "Satellite Image Processing and Analysis in the Big Data Era"**

Cheng, Yan (Andet)  
apr. 2023 → jun. 2023

## **Priser**

### **DDSA Travel Grant 2023**

Cheng, Yan (Modtager), jun. 2023

### **IEEE Geoscience and Remote Sensing Society Travel Grant**

Cheng, Yan (Modtager), maj 2023

### **ITC Excellence Scholarship**

Cheng, Yan (Modtager), apr. 2017